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Department of Environmental Quality
Division of Air Quality

Site ID: 10311

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Title V Operating Permit

PERMIT NUMBER: 2700001002

DATE OF PERMIT: January 24, 2003

Date of Last Revision: January 24, 2003

This Operating Permit is issued to, and applies to the following:

Name of Permittee:

Permitted Location:

Brush Resources Incorporated
PO Box 815
Delta, UT 84624

Delta Mill
PO Box 815
Delta, UT 84624

UTM coordinates: 4,370,000 meters Northing, 386,000 meters Easting
SIC code: 1099

ABSTRACT

Brush Resources Inc. produces beryllium carbonate and beryllium hydroxide concentrate at its mill located about 10 miles north of Delta, Utah. Raw materials used in this process include bertrandite ore mined from the Brush Resources mine approximately 47 miles west of the mill and beryl ore imported from various locations throughout the world.

Brush Resources began construction and operations at the mill in 1968 and 1969. The original installation is therefore grandfathered from the Approval Order requirements of R307-401. Since the original installation, Brush Resources has completed plant expansions and installation of additional processes which required Approval Orders to be issued by the Division of Air Quality. The mill is also a listed NESHAP source, 40 CFR Part 61, Subpart C, National Emission Standard for Beryllium.

UTAH AIR QUALITY BOARD

By:

Prepared By:

Richard W. Sprott, Executive Secretary

Tim Andrus

Operating Permit History

2/19/1997 - Permit issued	Action initiated by an initial operating permit application	
2/19/1998 -Permit modified	Action initiated by a reopening of an operating permit for cause	to reopen the permit to include the Title VI applicable requirements initially omitted.
6/15/2000 -Permit modified	Action initiated by an administrative amendment (initiated by source)	A Notice of Intent by Brush Wellman, Inc. was submitted on January 7, 2000 proposing the installation of a screen, a conveyor system, and one 40 KW generator system to process ore from existing stockpiles, causing less than five (5) tons per year additional emissions. Additionally, Brush Wellman, Inc. requested to change the fuel requirements for their 12.66 MMBtu/hr boiler from #5 fuel oil to #6 fuel oil causing no change in emissions. Also, the PM ₁₀ , SO ₂ , and Nox emission limits and testing requirements listed in Condition 6 of Approval Order DAQE-1191-95 dated December 22, 1995 for the backup boiler and 100 KW backup generator were removed in the new Approval Order DAQE-330-00 to make the AO consistent with the Title V permit.
1/24/2003 - Permit issued	Action initiated by a renewal of an operating permit	Renewal with minor changes. Removed scrubber STC-1 as non-existent, and modified opacity monitoring from semi-annual Method 9 to monthly survey with Method 9/203A follow-up if indicated. See reviewer comments for details on renewal actions.

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Issued under authority of Utah Code Ann. Section 19-2-104 and 19-2-109.1, and in accordance with Utah Administrative Code R307-415 Operating Permit Requirements.

All definitions, terms and abbreviations used in this permit conform to those used in Utah Administrative Code R307-101 and R307-415 (Rules), and 40 Code of Federal Regulations (CFR), except as otherwise defined in this permit. Unless noted otherwise, references cited in the permit conditions refer to the Rules.

Where a permit condition in Section I, General Provisions, partially recites or summarizes an applicable rule, the full text of the applicable portion of the rule shall govern interpretations of the requirements of the rule. In the case of a conflict between the Rules and the permit terms and conditions of Section II, Special Provisions, the permit terms and conditions of Section II shall govern except as noted in Provision I.M, Permit Shield.

Section I: General Provisions

I.A. Federal Enforcement.

All terms and conditions in this permit, including those provisions designed to limit the potential to emit, are enforceable by the EPA and citizens under the Clean Air Act of 1990 (CAA) except those terms and conditions that are specifically designated as "State Requirements". (R307-415-6b)

I.B. Permitted Activity(ies).

Except as provided in R307-415-7b(1), the permittee may not operate except in compliance with this permit. (See also Provision I.E, Application Shield)

I.C. Duty to Comply.

I.C.1 The permittee must comply with all conditions of the operating permit. Any permit noncompliance constitutes a violation of the Air Conservation Act and is grounds for any of the following: enforcement action; permit termination; revocation and reissuance; modification; or denial of a permit renewal application. (R307-415-6a(6)(a))

I.C.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (R307-415-6a(6)(b))

I.C.3 The permittee shall furnish to the Executive Secretary, within a reasonable time, any information that the Executive Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Executive Secretary copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the EPA along with a claim of confidentiality. (R307-415-6a(6)(e))

I.C.4 This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance shall not stay

any permit condition, except as provided under R307-415-7f(1) for minor permit modifications. (R307-415-6a(6)(c))

I.D. Permit Expiration and Renewal.

I.D.1 **This permit is issued for a fixed term of five years and expires on January 24, 2008.** (R307-415-6a(2))

I.D.2 Application for renewal of this permit is due by July 24, 2007. An application may be submitted early for any reason. (R307-415-5a(1)(c))

I.D.3 An application for renewal submitted after the due date listed in I.D.2 above shall be accepted for processing, but shall not be considered a timely application and shall not relieve the permittee of any enforcement actions resulting from submitting a late application. (R307-415-5a(5))

I.D.4 Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted consistent with R307-415-7b (see also Provision I.E, Application Shield) and R307-415-5a(1)(c) (see also Provision I.D.2). (R307-415-7c(2))

I.E. Application Shield.

If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit will not be a violation of R307-415, until the Executive Secretary takes final action on the permit renewal application. In such case, the terms and conditions of this permit shall remain in force until permit renewal or denial. This protection shall cease to apply if, subsequent to the completeness determination required pursuant to R307-415-7a(3), and as required by R307-415-5a(2), the applicant fails to submit by the deadline specified in writing by the Executive Secretary any additional information identified as being needed to process the application. (R307-415-7b(2))

I.F. Severability.

In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force. (R307-415-6a(5))

I.G. Permit Fee.

I.G.1 The permittee shall pay an annual emission fee to the Executive Secretary consistent with R307-415-9. (R307-415-6a(7))

I.G.2 The emission fee shall be due on October 1 of each calendar year or 45 days after the source receives notice of the amount of the fee, whichever is later. (R307-415-9(4)(a))

I.H. No Property Rights.

This permit does not convey any property rights of any sort, or any exclusive privilege. (R307-415-6a(6)(d))

I.I. Revision Exception.

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (R307-415-6a(8))

I.J. Inspection and Entry.

I.J.1 Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Executive Secretary or an authorized representative to perform any of the following:

I.J.1.a Enter upon the permittee's premises where the source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit. (R307-415-6c(2)(a))

I.J.1.b Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. (R307-415-6c(2)(b))

I.J.1.c Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. (R307-415-6c(2)(c))

I.J.1.d Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements. (R307-415-6c(2)(d))

I.J.2 Any claims of confidentiality made on the information obtained during an inspection shall be made pursuant to Utah Code Ann. Section 19-1-306. (R307-415-6c(2)(e))

I.K. Certification.

Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification as to its truth, accuracy, and completeness, by a responsible official as defined in R307-415-3. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R307-415-5d)

I.L. Compliance Certification.

I.L.1 Permittee shall submit to the Executive Secretary an annual compliance certification, certifying compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall be submitted no later than **February 1, 2003** and that date each year following until this permit expires. The certification shall include all the following (permittee may cross-reference this permit or previous reports): (R307-415-6c(5))

I.L.1.a The identification of each term or condition of this permit that is the basis of the certification;

I.L.1.b The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such

methods and other means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements in this permit. If necessary, the permittee also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;

- I.L.1.c The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in Provision I.L.1.b. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and
- I.L.1.d Such other facts as the Executive Secretary may require to determine the compliance status.
- I.L.2 The permittee shall also submit all compliance certifications to the EPA, Region VIII, at the following address or to such other address as may be required by the Executive Secretary: (R307-415-6c(5)(d))

Office of Enforcement, Compliance and Environmental Justice
(mail code 8ENF)
EPA, Region VIII
999 18th Street, Suite 300
Denver, CO 80202-2466

I.M. Permit Shield.

- I.M.1 Compliance with the provisions of this permit shall be deemed compliance with any applicable requirements as of the date of this permit, provided that:
- I.M.1.a Such applicable requirements are included and are specifically identified in this permit, or (R307-415-6f(1)(a))
- I.M.1.b Those requirements not applicable to the source are specifically identified and listed in this permit. (R307-415-6f(1)(b))
- I.M.2 Nothing in this permit shall alter or affect any of the following:
- I.M.2.a The emergency provisions of Utah Code Ann. Section 19-1-202 and Section 19-2-112, and the provisions of the CAA Section 303. (R307-415-6f(3)(a))
- I.M.2.b The liability of the owner or operator of the source for any violation of applicable requirements under Utah Code Ann. Section 19-2-107(2)(g) and Section 19-2-110 prior to or at the time of issuance of this permit. (R307-415-6f(3)(b))
- I.M.2.c The applicable requirements of the Acid Rain Program, consistent with the CAA Section 408(a). (R307-415-6f(3)(c))

I.M.2.d The ability of the Executive Secretary to obtain information from the source under Utah Code Ann. Section 19-2-120, and the ability of the EPA to obtain information from the source under the CAA Section 114. (R307-415-6f(3)(d))

I.N. Emergency Provision.

I.N.1 An “emergency” is any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. (R307-415-6g(1))

I.N.2 An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the affirmative defense is demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

I.N.2.a An emergency occurred and the permittee can identify the causes of the emergency. (R307-415-6g(3)(a))

I.N.2.b The permitted facility was at the time being properly operated. (R307-415-6g(3)(b))

I.N.2.c During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit. (R307-415-6g(3)(c))

I.N.2.d The permittee submitted notice of the emergency to the Executive Secretary within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirement of Provision I.S.2.c below. (R307-415-6g(3)(d))

I.N.3 In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. (R307-415-6g(4))

I.N.4 This emergency provision is in addition to any emergency or upset provision contained in any other section of this permit. (R307-415-6g(5))

I.O. Operational Flexibility.

Operational flexibility is governed by R307-415-7d(1).

I.P. Off-permit Changes.

Off-permit changes are governed by R307-415-7d(2).

I.Q. Administrative Permit Amendments.

Administrative permit amendments are governed by R307-415-7e.

I.R. **Permit Modifications.**

Permit modifications are governed by R307-415-7f.

I.S. **Records and Reporting.**

I.S.1 Records.

I.S.1.a The records of all required monitoring data and support information shall be retained by the permittee for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-charts or appropriate recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. (R307-415-6a(3)(b)(ii))

I.S.1.b For all monitoring requirements described in Section II, Special Provisions, the source shall record the following information, where applicable: (R307-415-6a(3)(b)(i))

I.S.1.b.1 The date, place as defined in this permit, and time of sampling or measurement.

I.S.1.b.2 The date analyses were performed.

I.S.1.b.3 The company or entity that performed the analyses.

I.S.1.b.4 The analytical techniques or methods used.

I.S.1.b.5 The results of such analyses.

I.S.1.b.6 The operating conditions as existing at the time of sampling or measurement.

I.S.1.c Additional record keeping requirements, if any, are described in Section II, Special Provisions.

I.S.2 Reports.

I.S.2.a Monitoring reports shall be submitted to the Executive Secretary every six months, or more frequently if specified in Section II. All instances of deviation from permit requirements shall be clearly identified in the reports. (R307-415-6a(3)(c)(i))

I.S.2.b All reports submitted pursuant to Provision I.S.2.a shall be certified by a responsible official in accordance with Provision I.K of this permit. (R307-415-6a(3)(c)(i))

I.S.2.c The Executive Secretary shall be notified promptly of any deviations from permit requirements including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventative measures taken. **Prompt, as used in this condition, shall be defined as written notification within 10 days.** Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107. (R307-415-6a(3)(c)(ii))

I.S.3 Notification Addresses.

I.S.3.a All reports, notifications, or other submissions required by this permit to be submitted to the Executive Secretary are to be sent to the following address or to such other address as may be required by the Executive Secretary:

Utah Division of Air Quality
P.O. Box 144820
Salt Lake City, UT 84114-4820
Phone: 801-536-4000

I.S.3.b All reports, notifications or other submissions required by this permit to be submitted to the EPA should be sent to one of the following addresses or to such other address as may be required by the Executive Secretary:

For annual compliance certifications

Environmental Protection Agency, Region VIII
Office of Enforcement, Compliance and
Environmental Justice (mail code 8ENF)
999 18th Street, Suite 300
Denver, CO 80202-2466

For reports, notifications, or other correspondence
related to permit modifications, applications, etc.

Environmental Protection Agency, Region VIII
Office of Partnerships & Regulatory Assistance
Air & Radiation Program (mail code 8P-AR)
999 18th Street, Suite 300
Denver, CO 80202-2466
Phone: 303-312-6440

I.T. **Reopening for Cause.**

I.T.1 A permit shall be reopened and revised under any of the following circumstances:

I.T.1.a New applicable requirements become applicable to the permittee and there is a remaining permit term of three or more years. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the terms and conditions of this permit have been extended pursuant to R307-415-7c(3), application shield. (R307-415-7g(1)(a))

I.T.1.b The Executive Secretary or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (R307-415-7g(1)(c))

I.T.1.c EPA or the Executive Secretary determines that this permit must be revised or revoked to assure compliance with applicable requirements. (R307-415-7g(1)(d))

I.T.1.d Additional applicable requirements are to become effective before the renewal date of this permit and are in conflict with existing permit conditions. (R307-415-7g(1)(e))

I.T.2 Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. (R307-415-7g(2))

I.U. **Inventory Requirements.**

I.U.1 An emission inventory shall be submitted in accordance with the procedures of R307-150, Emission Inventories. (R307-150)

I.U.2 A Hazardous Air Pollutant Inventory shall be submitted in accordance with the procedures of R307-155, Hazardous Air Pollutant Inventory. (R307-155)

Section II: SPECIAL PROVISIONS

II.A. Emission Unit(s) Permitted to Discharge Air Contaminants.

(R307-415-4(3)(a) and R307-415-4(4))

- II.A.1 **OJS - 1** (designated as S-1)
 Unit Description: Bertrandite Ore Wet Grinder with Wet Scrubber
- II.A.2 **LJS - 1** (designated as S-2)
 Unit Description: Old Leach System with Wet Scrubber
- II.A.3 **LJS - 2** (designated as S-3)
 Unit Description: New Leach System with Wet Scrubber
- II.A.4 **OPS - 1** (designated as S-5)
 Unit Description: Beryllium Product Drumming and Wet Scrubber
- II.A.5 **S - 4, AJS - 1** (designated as S-6 A)
 Unit Description: Beryllium Sludge Recovery, Wet Scrubber
- II.A.6 **SJS - 1** (designated as S-6 B)
 Unit Description: Beryllium Sludge Recovery, Wet Scrubber
- II.A.7 **BDC - 1** (designated as S-7 A)
 Unit Description: Beryl Ore Jaw Crusher with Baghouse
- II.A.8 **FDC - 1** (designated as S-7 B)
 Unit Description: Melting (Electric Furnace) with Baghouse
- II.A.9 **BDC - 2** (designated as S-8 A)
 Unit Description: Frit Roasting with Baghouse
- II.A.10 **OBV - 1** (designated as S-8 B)
 Unit Description: Grinding with Ground Ore Cyclone, Bleed Air Dust Collector
- II.A.11 **Demister** (designated as S-9 A)
 Unit Description: Sulfate Mill Demister
- II.A.12 **SS** (designated as S-9 B)
 Unit Description: Sulfate Mill Secondary Scrubber
- II.A.13 **PS** (designated as S-9 C)
 Unit Description: Sulfate Mill Primary Scrubber
- II.A.14 **EVS - 1** (designated as S-9 D)
 Unit Description: Sulfate Mill Venturi Scrubber
- II.A.15 **Backup Boiler** (designated as S-10)
 Unit Description: 12.66 MMBTU/hr operating on #6 fuel oil
- II.A.16 **Main Boiler** (designated as S-11)
 Unit Description: 81.2 MMBTU/hr operating on #6, or lighter, fuel oil
- II.A.17 **Fuel Oil Tank** (designated as T-1)
 Unit Description: Above ground storage tank for fuel oil No unit-specific applicable requirements.
- II.A.18 **Fuel Oil Tank** (designated as T-2)
 Unit Description: Above ground storage tank for fuel oil No unit-specific applicable requirements.
- II.A.19 **Fuel Oil Tank** (designated as T-3)
 Unit Description: Above ground storage tank for fuel oil No unit-specific applicable requirements.
- II.A.20 **Fuel Oil Tank** (designated as T-4)
 Unit Description: Above ground storage tank for fuel oil No unit-specific applicable requirements.

- II.A.21 **Sodium Hydroxide Tank** (designated as T-5)
Unit Description: Above ground storage tank for sodium hydroxide No unit-specific applicable requirements.
- II.A.22 **Solvent Tank** (designated as T-6)
Unit Description: Above ground storage tank for solvent No unit-specific applicable requirements.
- II.A.23 **Paved Haul Road, Bertradite Ore** (designated as F-1)
Unit Description: Fugitive Emissions of Bertandite Ore from Paved Haul Road No unit-specific applicable requirements.
- II.A.24 **Bertrandite Ore Storage Piles** (designated as F-2)
Unit Description: Fugitive Emissions of Bertrandite Ore from the Storage Piles
- II.A.25 **Beryl Ore Storage Pile** (designated as F-3)
Unit Description: Fugitive Emissions of Beryl Ore from the Storage Pile
- II.A.26 **Paved Haul Road, Beryl Ore** (designated as F-4)
Unit Description: Fugitive Emissions of Beryl Ore from the Paved Haul Road No unit-specific applicable requirements.
- II.A.27 **Auxiliary Crusher** (designated as F-5)
Unit Description: Auxiliary Crushing Plant with Fabric Filter rated at 250 tons per hour, excluding units in F-5A
- II.A.28 **Auxiliary Crusher: Hopper, Final Product Discharge** (designated as F-5 A)
Unit Description: Emissions from the Feed Hopper and Final Product Discharge
- II.A.29 **Tailings Pond** (designated as F-7)
Unit Description: A structure used to contain waste material
- II.A.30 **Solvent Extraction Process** (designated as F-8)
Unit Description: Fugitve VOC Emissions from the Solvent Extraction Process No unit-specific applicable requirements.
- II.A.31 **Flakelining** (designated as Misc-1)
Unit Description: Fugitive Emissions from the Flakelining process No unit-specific applicable requirements.
- II.A.32 **Parts Washers** (designated as Misc-2)
Unit Description: Approximately 5- 10 Parts Washers throughout the source No unit-specific applicable requirements.
- II.A.33 **Ammonia Emissions** (designated as Misc-3)
Unit Description: Fugitve Ammonia Emissions No unit-specific applicable requirements.
- II.A.34 **Pilot Plant** (designated as Misc-4)
Unit Description: Pilot Plant with Scrubber to control emissions
- II.A.35 **Aboveground Fuel Storage Tanks** (designated as Misc-5)
Unit Description: Approximately 5-10 propane, gas , and diesel aboveground storage tanks No unit-specific applicable requirements.
- II.A.36 **Sandblasting** (designated as Misc-6)
Unit Description: Sandblasting intermittent throughout the source controlled with a cyclone.
- II.A.37 **Fire Pump** (designated as Misc-7 A)
Unit Description: 240 BHP Diesel Engine powered Fire Pump
- II.A.38 **Backup Generator (325 KW)** (designated as Misc-7 B)
Unit Description: Diesel Backup Generator at the east side of Beryl Plant
- II.A.39 **Backup Generator (100 KW)** (designated as Misc-7 C)
Unit Description: Diesel Backup Generator at the south side of the Beryl Plant
- II.A.40 **Backup Generator (250 KW)** (designated as Misc-7 D)
Unit Description: Diesel Backup Generator located at the Utilities Building

- II.A.41 **Generator (40 KW)** (designated as Misc-7 E)
Unit Description: Diesel Generator located at the screen plant
- II.A.42 **Laboratory Baghouse** (designated as Misc-8)
Unit Description: Baghouse located at the Laboratory
- II.A.43 **Screen Conveyor Transfer Points** (designated as Misc-9)
Unit Description: Conveyor system and drop points associated with the screening system
- II.A.44 **Storage Silos four (4) each with a Baghouse** (designated as Storage Silos)
Unit Description: Units listed in this permit for identification only. No unit-specific applicable requirements.
- II.A.45 **Scrubber BPS -1** (designated as BPS - 1)
Unit Description: Unit listed in this permit for identification only.
- II.A.46 **Screening Plant** (designated as Screen-1)
Unit Description: 300 ton/hr rated capacity screen (10 ton/hr operating capacity) with fugitive emissions controlled by water sprays

II.B. **Requirements and limitations.**

The following emission limitations, standards, and operational limitations apply to the permitted facility as indicated: (R307-415-6a(1))

II.B.1 **Conditions on permitted source (Source-wide)**

II.B.1.a **Condition:**

Ambient air concentration of Beryllium Compounds shall be no greater than 0.01 ug/cubic-meter/month based on a 30 day average. [Authority granted under 40 CFR 61 (Subpart C); condition originated in 40 CFR 61 (Subpart C)]

II.B.1.a.1 **Monitoring:**

The ambient air emissions shall be monitored in accordance with the most recently approved "Ambient Beryllium NESHAP Compliance Monitoring Plan". The plan must comply with 40 CFR 61.32(b)(1)(iii), including provisions for daily monitoring, description and location of monitoring equipment, and quality assurance and quality control procedures to ensure that the equipment operates as intended and produces valid ambient data. (origin: 40 CFR 61 Subpart C)

II.B.1.a.2 **Recordkeeping:**

Records shall be recorded as described in the most recently approved Ambient Beryllium NESHAP Compliance Monitoring Plan

II.B.1.a.3 **Reporting:**

Monitoring results shall be reported in accordance with the most recently approved "Ambient Beryllium NESHAP Compliance Monitoring Plan", which in general shall specify that a report of the monitoring results shall be submitted to the executive secretary every 30 days. (origin: 40 CFR 61 Subpart C)

II.B.1.b **Condition:**

A Risk Management Plan (RMP) developed in accordance with 40 CFR Part 68 shall be submitted to the United States Environmental Protection Agency not later than the applicable date in 40 CFR 68. [Authority granted under 40 CFR 68; condition originated in 40 CFR Part 68]

- II.B.1.b.1 **Monitoring:**
Records required for this permit condition will serve as monitoring.
- II.B.1.b.2 **Recordkeeping:**
A copy of the Risk Management Plan shall be available to the Executive Secretary upon request along with a copy of the transmittal letter to EPA.
- II.B.1.b.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.1.c **Condition:**
Sulfur content of the diesel fuels combusted shall be no greater than 0.85 lbs sulfur per MMBTU heat input. [Authority granted under R307-203-1; condition originated in DAQE-267-02]
- II.B.1.c.1 **Monitoring:**
Compliance with this limitation for #2 diesel fuel shall be demonstrated by records of fuel type purchased. Sulfur content for diesel fuels other than #2 shall be determined by ASTM-4294, or equivalent. Compliance with this limitation for other diesel fuels may be demonstrated by records of energy content, sulfur content, and density determinations for each shipment of fuel received. (origin: R307-203-1)
- II.B.1.c.2 **Recordkeeping:**
Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.1.c.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.1.d **Condition:**
The permittee shall comply with the applicable requirements for servicing of motor vehicle air conditioners pursuant to 40 CFR 82, Subpart B - Servicing of Motor Vehicle Air Conditioners. [Authority granted under 40 CFR 82.30(b); condition originated in 40 CFR 82 Subpart B]
- II.B.1.d.1 **Monitoring:**
The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart B.
- II.B.1.d.2 **Recordkeeping:**
All records required in 40 CFR 82, Subpart B shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.
- II.B.1.d.3 **Reporting:**
All reports required in 40 CFR 82, Subpart B shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.

II.B.1.e

Condition:

The permittee shall comply with the applicable requirements for recycling and emission reduction for class I and class II refrigerants pursuant to 40 CFR 82, Subpart F - Recycling and Emissions Reduction. [Authority granted under 40 CFR 82.150(b); condition originated in 40 CFR 82 Subpart F]

II.B.1.e.1

Monitoring:

The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart F.

II.B.1.e.2

Recordkeeping:

All records required in 40 CFR 82, Subpart F shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.

II.B.1.e.3

Reporting:

All reports required in 40 CFR 82, Subpart F shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.

II.B.2

Conditions on OJS - 1 (S-1)

II.B.2.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.2.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.2.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.2.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.3 **Conditions on LJS - 1 (S-2)**

II.B.3.a **Condition:**

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.3.a.1 **Monitoring:**

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.3.a.2 **Recordkeeping:**

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.3.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.4 **Conditions on LJS - 2 (S-3)**

II.B.4.a **Condition:**

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.4.a.1 **Monitoring:**

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.4.a.2 **Recordkeeping:**

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.4.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.5

Conditions on OPS - 1 (S-5)

II.B.5.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.5.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.5.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.5.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.6

Conditions on S - 4, AJS - 1 (S-6 A)

II.B.6.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.6.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.6.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR

60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.6.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7

Conditions on SJS - 1 (S-6 B)

II.B.7.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.7.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.7.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.7.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8

Conditions on BDC - 1 (S-7 A)

II.B.8.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.8.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.8.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.8.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.9

Conditions on FDC - 1 (S-7 B)

II.B.9.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.9.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.9.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.9.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.10

Conditions on BDC - 2 (S-8 A)

II.B.10.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.10.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with

40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.10.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.10.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.11

Conditions on OBV - 1 (S-8 B)

II.B.11.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.11.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.11.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.11.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.12

Conditions on Demister (S-9 A)

II.B.12.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.12.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water

vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.12.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.12.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.13

Conditions on SS (S-9 B)

II.B.13.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.13.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.13.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.13.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.14

Conditions on PS (S-9 C)

II.B.14.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.14.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.14.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.14.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.15

Conditions on EVS - 1 (S-9 D)

II.B.15.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.15.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.15.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.15.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.16 **Conditions on Backup Boiler (S-10)**

II.B.16.a **Condition:**

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in DAQE-267-02]

II.B.16.a.1 **Monitoring:**

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.16.a.2 **Recordkeeping:**

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.16.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.16.b **Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.16.b.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.16.b.2 **Recordkeeping:**

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.16.b.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.16.c

Condition:

The backup boiler shall only be operated in place of the main boiler during periods when the plant is idle, when the main boiler is starting up or shutting down, or the main boiler breaks down. [Authority granted under R307-401(6) [BACT]; condition originated in DAQE-267-02]

II.B.16.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.16.c.2

Recordkeeping:

A log showing the reason for operation shall be maintained in accordance with provision I.S.I for all periods when the unit is operated.

II.B.16.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.17

Conditions on Main Boiler (S-11)

II.B.17.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.17.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.17.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.17.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.18

Conditions on Bertrandite Ore Storage Piles (F-2)

II.B.18.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.18.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.18.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.18.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.19

Conditions on Beryl Ore Storage Pile (F-3)

II.B.19.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.19.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.19.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.19.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.20 **Conditions on Auxiliary Crusher (F-5)**

II.B.20.a **Condition:**

Quantity of bertrandite ore processed shall be no greater than 540,000 tons per rolling 12-month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.20.a.1 **Monitoring:**

Within the first 25 days of each month, a 12-month rolling total shall be determined using records from the previous 12 months. Throughput shall be recorded on a daily basis for all periods of operation.

II.B.20.a.2 **Recordkeeping:**

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.20.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.20.b **Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.20.b.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.20.b.2 **Recordkeeping:**

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.20.b.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.20.c **Condition:**

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307- 401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.20.c.1 **Monitoring:**

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water

vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.20.c.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.20.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.21

Conditions on Auxiliary Crusher: Hopper, Final Product Discharge (F-5 A)

II.B.21.a

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.21.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.21.a.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.21.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.21.b

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.21.b.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that

emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.21.b.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.21.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.22

Conditions on Tailings Pond (F-7)

II.B.22.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.22.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.22.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.22.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.23

Conditions on Pilot Plant (Misc-4)

II.B.23.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.23.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.23.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.23.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.23.b

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.23.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.23.b.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.23.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.24

Conditions on Sandblasting (Misc-6)

II.B.24.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.24.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.24.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.24.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.25

Conditions on Fire Pump (Misc-7 A)

II.B.25.a

Condition:

The permittee shall use #2, or lighter diesel fuel in this unit. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.25.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.25.a.2

Recordkeeping:

The permittee shall maintain records of the types of fuel combusted.

II.B.25.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.25.b

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.25.b.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.25.b.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.25.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.25.c

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.25.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.25.c.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.25.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.26

Conditions on Backup Generator (325 KW) (Misc-7 B)

II.B.26.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.26.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.26.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.26.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.27

Conditions on Backup Generator (100 KW) (Misc-7 C)

II.B.27.a

Condition:

The permittee shall use #2, or lighter diesel fuel in this unit. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.27.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.27.a.2

Recordkeeping:

The permittee shall maintain records of the types of fuel combusted.

II.B.27.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.27.b

Condition:

Hours of operation shall be no greater than 336 hours per 12 month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.27.b.1

Monitoring:

Compliance with the limitation shall be determined on a rolling 12-month total. The permittee shall calculate a new 12-month total by the 25th day of each month using data from the previous 12 months. Records shall be kept on a daily basis when in operation.

II.B.27.b.2

Recordkeeping:

A log of all hours of engine operation shall be maintained on a daily basis, when the generators are in operation, and shall include the results of required monitoring. Records shall be maintained as described in Provision I.S.1 of this permit.

II.B.27.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.27.c

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution

control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.27.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.27.c.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.27.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.27.d

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in DAQE-267-02]

II.B.27.d.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.27.d.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.27.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.28

Conditions on Backup Generator (250 KW) (Misc-7 D)

II.B.28.a

Condition:

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.28.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.28.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.28.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.29

Conditions on Generator (40 KW) (Misc-7 E)

II.B.29.a

Condition:

The permittee shall use #2, or lighter diesel fuel in this unit. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.29.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.29.a.2

Recordkeeping:

The permittee shall maintain records of the types of fuel combusted.

II.B.29.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.29.b

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.29.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.29.b.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.29.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.29.c

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in DAQE-267-02]

II.B.29.c.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.29.c.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.29.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.29.d

Condition:

Hours of operation shall be no greater than 900 hours per 12 month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.29.d.1

Monitoring:

Compliance with the limitation shall be determined on a rolling 12-month total. The permittee shall calculate a new 12-month total by the 25th day of each month using data from the previous 12 months. Records shall be kept on a daily basis when in operation.

II.B.29.d.2

Recordkeeping:

A log of all hours of engine operation shall be maintained on a daily basis, when the generators are in operation, and shall include the results of required monitoring. Records shall be maintained as described in Provision I.S.1 of this permit.

II.B.29.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.30

Conditions on Laboratory Baghouse (Misc-8)

II.B.30.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.30.a.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.30.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.30.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.31

Conditions on Screen Conveyor Transfer Points (Misc-9)

II.B.31.a

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.31.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.31.a.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.31.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.31.b

Condition:

Permittee shall operate water sprays or dust suppression sprays as appropriate to control fugitive emissions. The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary. Sprays shall not be required during periods of freezing temperatures. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.31.b.1

Monitoring:

Visual inspections of the water spray system(s) shall be made weekly to ensure proper operating condition.

II.B.31.b.2

Recordkeeping:

An operators log shall be maintained of all monitoring provisions listed above. Records of water spray system inspections shall be kept for all periods of operation and the ambient temperature shall be recorded any time water should be applied but can not be due to freezing conditions.

II.B.31.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.31.c

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307- 401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.31.c.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.31.c.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.31.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.32 **Conditions on Scrubber BPS -1 (BPS - 1)**

II.B.32.a **Condition:**

Visible emissions shall be no greater than 40 percent opacity. [Authority granted under R307-201-1(5); condition originated in R307-201-1(5)]

II.B.32.a.1 **Monitoring:**

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.32.a.2 **Recordkeeping:**

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.32.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.33 **Conditions on Screening Plant (Screen-1)**

II.B.33.a **Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-267-02]

II.B.33.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.33.a.2 **Recordkeeping:**

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.33.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.33.b

Condition:

Permittee shall operate water sprays or dust suppression sprays as appropriate to control fugitive emissions. The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary. Sprays shall not be required during periods of freezing temperatures. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.33.b.1

Monitoring:

Visual inspections of the water spray system(s) shall be made weekly to ensure proper operating condition.

II.B.33.b.2

Recordkeeping:

An operators log shall be maintained of all monitoring provisions listed above. Records of water spray system inspections shall be kept for all periods of operation and the ambient temperature shall be recorded any time water should be applied but can not be due to freezing conditions.

II.B.33.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.33.c

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307- 401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.33.c.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9 for point sources, and in accordance 58 FR 61640 Method 203A for fugitive sources.

II.B.33.c.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and a list of the emission points checked during the visual opacity survey. The permittee shall maintain all records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 or by Method 203A in accordance with Provision I.S.1 of this permit.

II.B.33.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.33.d

Condition:

Production of ore shall be no greater than 3,000 tons per rolling 12-month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-267-02]

II.B.33.d.1

Monitoring:

Compliance with the limitation shall be determined on a rolling 12-month total. The permittee shall calculate a new 12-month total by the 25th day of each month using data from the previous 12 months. Records shall be kept on a daily basis when in operation.

II.B.33.d.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.33.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.C. **Emissions Trading.**

(R307-415-6a(10))

Not applicable to this source.

II.D. **Alternative Operating Scenarios.**

(R307-415-6a(9))

Not applicable to this source.

Section III: PERMIT SHIELD

The following requirements have been determined to be not applicable to this source in accordance with Provision I.M, Permit Shield:

III.A. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the Main Boiler (S-11) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.B. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the LJS - 1 (S-2) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.C. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the Backup Generator (250 KW) (Misc-7 D) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.D. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the Aboveground Fuel Storage Tanks (Misc-5) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.E. **40 CFR, Part 60, Subpart OOO (Non-metallic mineral processing)**

This regulation is not applicable to the Auxiliary Crusher (F-5) because the ore being processed does not contain over 50% of any of the materials listed in the NSPS Subpart OOO standard. Letter from J.Dean Gillam, EPA Region VIII to Tim Blanchard DAQ 3/26/1996

III.F. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the SJS - 1 (S-6 B) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.G. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the Storage Silos four (4) each with a Baghouse (Storage Silos) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.H. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the Scrubber BPS -1 (BPS - 1) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.I. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the Sandblasting (Misc-6) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.J. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the S - 4, AJS - 1 (S-6 A) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.K. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the OPS - 1 (S-5) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.L. **R307-401-1 (Notice of Intent)**

This regulation is not applicable to the OJS - 1 (S-1) because pre November 29,1969, therefore "grandfathered" to the requirement to have an Approval Order

III.M. **40 CFR, Part 61, Subpart LL (Metallic mineral processing)**

This regulation is not applicable to the Auxiliary Crusher (F-5) because the ore being processed does not meet the definition of metallic mineral in NSPS Subpart LL. Letter from J. Dean Gillam, Region VIII EPA to Tim Blanchard DAQ 3/26/96

Section IV: ACID RAIN PROVISIONS.

This source is not subject to Title IV. This section is not applicable.

REVIEWER COMMENTS

This operating permit incorporates all applicable requirements contained in the following documents:

DAQE-267-02	dated	April 18, 2002
Approval Order	dated	September 01, 1983
Approval Order	dated	January 28, 1980
Approval Order	dated	June 13, 1979
Approval Order	dated	March 23, 1977

1. Comment on an item originating in R307-205 regarding permitted source (Source-wide)

Common stacks: There are three common stacks: emissions units S-7A and S-7B go to a common stack; S-9A, S-9B, S-9C, and S-9D go to a common stack and; S-6A and S-6B go to a common stack. If the opacity for the common stack is less than the limit for the individual units, those individual units shall be considered in compliance with the opacity limit. If the opacity on a common stack is greater than the opacity limit, the permittee may isolate each emission unit to determine if an opacity violation has occurred. [Comment last updated on 6/15/2000]

2. Comment on an item originating in R307-203-1 regarding permitted source (Source-wide)

Sulfur content of fuels: R307-203-1 (Sulfur content of fuels) allows a source to request for approval of an alternate test method to verify compliance with this limit. Brush requested and justified that #2 DF by design contains less than 0.5 weight percent sulfur (0.262 lb/MMBtu). [Comment last updated on 6/15/2000]

3. Comment on an item originating in AO DAQE-416-96 regarding Auxiliary Crusher (Unit F-5)

Moisture content of material shall be maintained at a minimum of 8% by weight.: Moisture content of material shall be maintained at a minimum of 8% by weight. The material being processed ranges in moisture content between 16% -18%. To have an 8% minimum moisture content limit would add no value to the permit and be redundant. [Comment last updated on 9/03/1996]

4. Comment on an item originating in AO DAQE-416-96 regarding Auxiliary Crusher (Unit F-5)

250 tons per hour production limit: 250 tons per hour production limit. The piece of equipment's capacity is rated at 250 tons per hour. Since the equipment is not rated to operate any higher than this, the limitation is redundant. [Comment last updated on 8/29/1996]

5. Comment on an item originating in DAQE-267-02 regarding permitted source (Source-wide)

Proper Operation & Maintenance Condition Added: Approval Order DAQE-416-96, DAQE-1191-95, and subsequent AO DAQE-330-00 contain a proper operations and maintenance (O & M) requirement which was inadvertently overlooked during the

original version of this Operating Permit. The O & M condition has been added to this permit and is applicable to units: Misc-7C, Misc-7E, Misc-9, Screen-1, F-5, and F-5A. 8/14/02: DAQE-267-02 adds S-10, Misc-4, Misc-7A to the approved equipment list, so the condition extends to those units also. [Comment last updated on 11/08/2002]

6. Comment on an item originating in DAQE-267-02 regarding Backup Boiler (Unit S-10)

Addition of operation records: DAQE-267-02 and its predecessors contain a restriction on the operation of the backup boiler. This condition was originally left out of the operating permit because it was environmentally insignificant, especially in light of the emission limits included in previous permits. With the removal of those limits in recent permits, this condition takes on a higher importance, and so is included in this permit. [Comment last updated on 8/14/2002]

7. Comment on an item originating in permit renewal regarding permitted source (Source-wide)

Change to standard reporting requirements: The existing reporting requirements repeated requirements of Section I. This renewal updates those reporting requirements to reflect current approach, i.e., specifies that no reporting is required other than that required by Section I. This makes no substantive change to the permit. [Comment last updated on 8/14/2002]

8. Comment on an item originating in permit renewal regarding permitted source (Source-wide)

Changes made during renewal: In addition to the reporting changes described above, the following changes were made:

- per source, unit STS-1 was never constructed, and has been removed from permit
- opacity monitoring has been changed from semiannual method 9 to standard monthly opacity survey with observation follow-up when needed.
- 12-month rolling totals must now be determined by 25th day of month instead of 10th day. Associated monitoring and recordkeeping are updated.
- The condition involving 40 CFR Part 68 has been updated to incorporate the requirements from 40 CFR 68.215 for sources that have submitted the initial plan.
- The authority for units subject to 10% opacity from DAQE-267-02 has been corrected from the rule to BACT.
- The monitoring and recordkeeping for the fire pump has been updated to current standard language. [Comment last updated on 11/08/2002]

9. Comment on an item originating in permit renewal regarding permitted source (Source-wide)

Changes requested but denied: The source requested several changes that would base monitoring on whether the unit operates during a certain period. The following requests were not granted:

In the case of opacity monitoring, the use of opacity surveys removes any burden of checking a unit that is not operating (not operating = no visible emissions).

For water sprays on transfer points: DAQE-267-02, approved by the source after submission of the operating permit renewal application, calls for the same monitoring as currently exists in the operating permit, so it is taken from that this supersedes the earlier request. [Comment last updated on 8/14/2002]

